

CLAIMS

1. A method of offloading compilation, the method comprising:
transmitting compilation information from a first subsystem to a second subsystem;
compiling computer program code into machine-executable code on the second subsystem based on the compilation information received from the first subsystem; and
receiving the machine-executable code from the second subsystem into the first subsystem.
2. A method according to claim 1, wherein the step of transmitting compilation information includes transmitting compilation information from a first subsystem to a second subsystem in response to a request to compile computer program code into machine-executable code.
3. A method according to claim 1, wherein the step of transmitting compilation information includes transmitting compilation information written in intermediate language code from a first subsystem to a second subsystem.
4. A method according to claim 1, wherein the step of transmitting compilation information includes transmitting compilation information from a small device to a second subsystem.

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5. A method according to claim 4, wherein the step of transmitting compilation information includes transmitting compilation information from a cellular phone to a second subsystem.
6. A method according to claim 1, wherein the step of compiling computer program code includes compiling intermediate language code into machine-executable code on the second subsystem based on the compilation information received from the first subsystem.
7. A method according to claim 1, further comprising:
before receiving the machine executable code, detecting whether the second subsystem is a trusted source.
8. A method according to claim 7, wherein the step of detecting includes using a receipt policy to detect whether the second subsystem is a trusted source.
9. A method according to claim 8, wherein the step of detecting includes detecting whether the first and second subsystem are connected via a secure link.
10. A method according to claim 1, further comprising:
using the machine-executable code on the first subsystem.
11. A method according to claim 10, wherein the step of using includes storing the machine-executable code on the first subsystem.
12. A method according to claim 11, wherein the step of using includes executing the machine-executable code on the first subsystem.

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13. A method according to claim 1, wherein the step of transmitting includes transmitting compilation information and computer program code from a first subsystem to a second subsystem.
14. A method according to claim 1, further comprising:
before the step of compiling, retrieving computer program code for compilation into machine-executable code.
15. A method according to claim 14, wherein the step of retrieving computer program code includes retrieving computer program code from a third subsystem.
16. A method according to claim 1, wherein the step of compiling includes decoding the compilation information.
17. A method according to claim 1, wherein the step of transmitting compilation information from a first subsystem to a second subsystem includes transmitting compilation information from a first subsystem to a second subsystem wherein the first and second subsystems are components of a single system.
18. A method according to claim 1, wherein the step of transmitting includes transmitting compilation instructions from a first subsystem to a second subsystem.

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19. A method in a first subsystem for compiling program code for execution in a second subsystem, the method comprising:
- receiving compilation information from the second subsystem;
 - compiling computer program code into machine-executable code based on the compilation information received from the second subsystem; and
 - transmitting the machine-executable code to the second subsystem.
20. A method according to claim 19, wherein the step of receiving compilation information includes receiving compilation information from a small device.
21. A method according to claim 19, wherein the step of receiving compilation information includes receiving compilation information from a cellular phone.
22. A method according to claim 19, wherein the step of compiling computer program code includes compiling intermediate language code into machine-executable code based on the compilation information received from the second subsystem.
23. A method according to claim 19, wherein the step of receiving includes receiving compilation information and computer program code from the second subsystem.
24. A method according to claim 19, further comprising:
- before the step of compiling, retrieving computer program code for compilation into machine-executable code.

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25. A method according to claim 24, wherein the step of retrieving computer program code includes retrieving computer program code from the first subsystem.
26. A method according to claim 19, wherein the step of compiling includes decoding the compilation information.

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27. A method in a second subsystem for offloading compilation to a first subsystem having a program code compiler, the method comprising:
- transmitting compilation information to the first subsystem; and
 - receiving machine-executable code, compiled from the compilation information, from the first subsystem.
28. A method according to claim 27, wherein the step of transmitting compilation information includes transmitting compilation information in response to a request to compile computer program code into machine-executable code.
29. A method according to claim 27, wherein the step of transmitting compilation information includes transmitting compilation information written in intermediate language code.
30. A method according to claim 27, further comprising:
- before receiving machine executable code, detecting whether the first subsystem is a trusted source.
31. A method according to claim 30, wherein the step of detecting includes using a receipt policy to detect whether the first subsystem is a trusted source.
32. A method according to claim 31, wherein the step of detecting includes detecting whether the first subsystem is connected via a secure link.
33. A method according to claim 27, wherein the step of transmitting includes transmitting compilation information and computer program code to a first subsystem.

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34. A computer program storage medium readable by a computing system and encoding a computer program of instructions for executing a computer process for offloading compilation, the computer process comprising:
- sending program information from a first subsystem to a second subsystem;
 - compiling program code into machine-executable code on the second subsystem based on the program information received from the first subsystem; and
 - receiving the machine-executable code from the second subsystem into the first subsystem.
35. A computer process according to claim 34, wherein the step of sending program information includes sending program information from a first subsystem to a second subsystem in response to a request to compile program code into machine-executable code.
36. A computer process according to claim 34, wherein the step of sending program information includes sending program information written in intermediate language code from a first subsystem to a second subsystem.
37. A computer process according to claim 34, wherein the step of sending program information includes sending program information from a small device to a second subsystem.
38. A computer process according to claim 37, wherein the step of sending program information includes sending program information from a cellular phone to a second subsystem.

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39. A computer process according to claim 34, wherein the step of compiling program code includes compiling intermediate language code into machine-executable code on the second subsystem based on the program information received from the first subsystem.

40. A computer process according to claim 34, further comprising:
before receiving the machine executable code, detecting whether the second subsystem is a trusted source.

41. A computer process according to claim 40, wherein the step of detecting includes using a receipt policy to detect whether the second subsystem is a trusted source.

42. A computer process according to claim 41, wherein the step of detecting includes detecting whether the first and second subsystem are connected via a secure link.

43. A computer process according to claim 34, wherein the step of sending includes sending program information and computer program code from a first subsystem to a second subsystem.

44. A computer process according to claim 34, further comprising:
before the step of compiling, retrieving program code for compilation into machine-executable code.

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45. A computer process according to claim 44, wherein the step of retrieving program code includes retrieving program code from a third subsystem.
46. A computer process according to claim 34, wherein the step of compiling includes decoding the program information.
47. A computer process according to claim 34, wherein the step of sending includes sending compilation instructions from a first subsystem to a second subsystem.

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48. A system for offloading compilation, the apparatus comprising:
a transmit module that transmits compilation information from a first subsystem to a second subsystem;
a compile module that compiles program code into machine-executable code on the second subsystem based on the compilation information received from the first subsystem; and
a receive module that receives the machine-executable code from the second subsystem into the first subsystem.
49. A system according to claim 48, wherein the transmit module transmits in response to a request to compile program code into machine-executable code.
50. A system according to claim 48, wherein the compilation information is written in intermediate language code.
51. A system according to claim 48, wherein the first subsystem is a small device.
52. A system according to claim 51, wherein the small device is a cellular phone.
53. A system according to claim 48, further comprising:
a detect module that detects whether the second subsystem is a trusted source.
54. A system according to claim 53, wherein the detect module uses a receipt policy to detect whether the second subsystem is a trusted source.
55. A system according to claim 54, wherein the detect module detects whether the first and second subsystem are connected via a secure link.

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56. A computer data signal embodied in a carrier wave readable by a computing system and encoding a computer program of instructions for executing a computer process for offloading compilation, the computer process comprising:
- sending program information from a first subsystem to a second subsystem;
 - compiling program code into machine-executable code on the second subsystem based on the program information received from the first subsystem; and
 - receiving the machine-executable code from the second subsystem into the first subsystem.
57. A computer process according to claim 56, wherein the step of sending program information includes sending program information from a first subsystem to a second subsystem in response to a request to compile program code into machine-executable code.
58. A computer process according to claim 57, wherein the step of sending program information includes sending program information written in intermediate language code from a first subsystem to a second subsystem.
59. A computer process according to claim 57, wherein the step of sending program information includes sending program information from a small device to a second subsystem.
60. A computer process according to claim 59, wherein the step of sending program information includes sending program information from a cellular phone to a second subsystem.

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61. A computer process according to claim 56, wherein the step of compiling program code includes compiling intermediate language code into machine-executable code on the second subsystem based on the program information received from the first subsystem.
62. A computer process according to claim 56, further comprising:
before receiving the machine executable code, detecting whether the second subsystem is a trusted source.
63. A computer process according to claim 62, wherein the step of detecting includes using a receipt policy to detect whether the second subsystem is a trusted source.
64. A computer process according to claim 63, wherein the step of detecting includes detecting whether the first and second subsystem are connected via a secure link.
65. A computer process according to claim 56, wherein the step of sending includes sending program information and computer program code from a first subsystem to a second subsystem.
66. A computer process according to claim 56, further comprising:
before the step of compiling, retrieving program code for compilation into machine-executable code.

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67. A computer process according to claim 66, wherein the step of retrieving program code includes retrieving program code from a third subsystem.

68. A computer process d according to claim 56, wherein the step of compiling includes decoding the program information.

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